

ABSTRACT

Effective processes are provided for the production of xylitol and ethanol and other products from solutions derived from lignocellulose-containing material in biomass. The solutions can be hydrolyzed or partially hydrolyzed before being fermented with microbes. The fermented solution can be distilled and can be subsequently separated, such as, by chromatographic separation, membrane separation, etc. The recovered xylitol solution can be crystallized to provide pure xylitol crystals.